

PATENT Attorney Docket No. 056291-5258

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Rodney Brian Hargreaves et a	(L) Confirmation No.: 7098
Application No.: 10/534,651	) Group Art Unit: 1625
Filed: May 12, 2005	) Examiner: Seaman, D Margaret M
For: Quinoline Derivatives as Glucokinase	) ) ) Date: June 30, 2006

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Window, Mail Stop Amendment
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

## <u>UNDER 37 C.F.R. § 1.97(c)</u>

# Citation of Technically Related U.S. Patent Applications

The Examiner's attention is directed to the following technically related U.S. patents or applications of Applicant's assignee:

Inventor	U.S. Serial No.	U.S. Pub. /Patent No.	PCT Publ. No.	
	Filing Date	Publication Date	Date	
Barry Raymond Hayter et al.	10/482,264	US 20050054715	WO 03/000262	
	December 23, 2005	March 10, 2005	January 3, 2003	
Barry Raymond Hayter et al.	10/482,572	US 20040214868	WO 03/000267	
	December 22, 2003	October 28, 2004	January 3, 2003	
Scott Boyd et al.	10/486,496	US 20050080106	WO 03/015774	
	February 11, 2004	April 14, 2005	February 27, 2003	
Darren Mckerrecher et al.	10/534,650	US 20060058353	WO 2004/046139	
	May 12, 2005	March 16, 2006	June 3, 2004	
Peter William Rodney Caulkett	10/578,021		WO 2005/044801	
et al.	April 28, 2006		May 19, 2005	
Craig Johnstone et al.	10/579,337		WO 2005/054200	
_	May 15, 2006		June 16, 2005	
Craig Johnstone et al.	10/579,552		WO 2005/054233	
	May 16, 2006		June 16, 2005	

Where a published US application is not available, the undersigned understands that the text of each related application is essentially the same as the above listed published PCT Application.

Consideration of each listed application is earnestly solicited. Copies of the listed published PCT applications have been previously submitted to the U.S. Patent and Trademark Office.

Pursuant to 37 C.F.R. 1.56 and 1.97(c), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449 form. This Supplemental Information Disclosure Statement (IDS) is being filed after the events recited in § 1.97(b) but, to the undersigned's knowledge, before the mailing date of either a Final Office Action or a Notice of Allowance. The Commissioner is hereby authorized to charge \$180.00, as specified by §1.17(p), to Deposit Account No. 50-0310 for this Supplemental Information Disclosure Statement under the provisions of 37 C.F.R. §1.97(c).

With the exception of the U.S. Patents, copies of the listed documents are attached. Applicants respectfully request that the Examiner initial and return the Form PTO-1449, indicating that the information has been considered and made of record herein.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If it should be determined that the listed documents constitute "prior art" under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

If there are any additional fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-0310. If a fee is required for an extension of time under 37 C.F.R.

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§1.136 not accounted for above, such an extension is requested and the fee should also be charged to our Deposit Account.

Date:

June 30, 2006

By:

Morgan Lewis & Bockius LLP Customer No. 09629 1111 Pennsylvania Avenue, N.W.

Washington, D.C. 20004 Tel. No.: 202-739-3000 Registration No. 46,882 Tel. No.: (202) 739-5320

Fax No.: (202) 739-3001

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### Attorney Docket No. Application No. INFORMATION DISCLOSURE CITATION 056291-5258 10/534,651 (Use several sheets if necessary Applicants: Rodney Brian Hargreaves et al. Page 1 of 2 JUN 3 0 5006 **PTO Form 1449** June 30, 2006 Filing Date: May 12, 2005 Group Art Unit: 1625 TENTE TRADER **S. PATENT DOCUMENTS** Filing Date Initial Document No. Class Sub-Class Date Name March 27, 1979 November 3, 1977 1. US 4,146,631 Ford, et al. 514 381 FOREIGN PATENT DOCUMENTS Document No. Country Class Sub-Class Translation Date November 30, 2005 EP 1600442 2. Europe 3. JP 08 173525 July 9, 1996 Japan Abstract 4. JP 08 301760 November 19, 1996 Japan Yes 5. WO 01/19788 March 22, 2001 **WIPO** September 10, 2004 Yes WO 2004/076420 WIPO 6. 7. WO 2005/063738 July 14, 2005 **WIPO** Yes WO 2005/066145 July 21, 2005 **WIPO** 8. 9. WO 2005/080359 September 1, 2005 **WIPO** WO 2005/080360 September 1, 2005 10. **WIPO** WO 2005/090332 September 29, 2005 **WIPO** Yes 11. WO 2005/095417 October 13, 2005 12. **WIPO** October 13, 2005 WIPO WO 2005/095418 13. 14. WO 2005/103021 November 3, 2005 WIPO 15. WO 2005/121110 December 22, 2005 **WIPO** WO 2005/123132 December 29, 2005 WIPO 16. WO 2006/016174 February 16, 2006 WIPO 17. WO 2006/016178 February 16, 2006 18. **WIPO** 19. WO 2006/016194 February 16, 2006 WIPO April 20, 2006 20. WO 2006/040527 **WIPO** WO 2006/040528 April 20, 2006 21. **WIPO** WO 2006/040529 WIPO 22. April 20, 2006 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Anderson et al "Pyridopyrimidines. 6. Nucleophilic substitutions in the Pyrido[2,3-d]pyrimidine series" J. Org. Chem. 42(6):993-996 (1977) Ando et al. "Fluoride salts on alumina as reagents for alkylation of phenols and alcohols" Bull. Chem. Soc. Jpn., 24. 55:2504-2507 (1982) Coghlan "Small molecule Glucokinase Activators (GKAs) as novel anti-diabetic agents" Society for Medicines 25. Research Seminar (June 2004) Coghlan "Small molecule Glucokinase Activators (GKAs) as novel anti-diabetic agents" CIDEM seminar (May 2005) 26. Gill et al. "Stimulation of insulin release by a small molecule glucokinase activator" EASD Islet Study Group Abstract 27. (November 2005) Kunishima et al. "4-(4,6-Dimethoxy-1,3,5-triazin-2-yl)-4-methyl-morpholinium chloride: An efficient condensing agent leading to the formation of amides and esters" Tetrahedron 55:13159-13170 (1999) Leighton et al. "Small molecule glucokinase activators as novel anti-diabetic agents" Biochem Soc Trans. 33(Pt 2):371-374 (April 2005) McKerrecher "Design and synthesis of novel glucokinase activators" 13th RSC-SCI Medicinal Chemistry Symposium, Churchill College Cambridge (September 2005) Examiner Date Considered Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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